

Appl. No. 10/713,636
 Atty. Docket No. CM2567C
 Amdt. dated 01/18/2005
 Reply to Office Action of 10/18/2004
 Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A hair care composition comprising one or more

surfactants and a polysiloxane selected from the group consisting of:

(A) a terminal aminofunctional polysiloxane according to the formula:



wherein: A represents R_3SiO , wherein

~~R~~ is an alkyl group of 1 to 5 carbons, or a phenyl group, or an alkoxy group or an hydroxy group;

~~Q~~ is an amine functional group of the formula R^2Z ,

~~R~~ is a divalent alkylene radical of 3 to 6 carbons, preferably trimethylene,

~~2~~ pentamethylene, $CH_2CHCH_2CH_2$, or $CH_2CH_2CHCH_2CH_2$,

~~Z~~ is $N(R^3)_2$ or $NR^3(CH_2)_nN(R^3)_2$,

~~R~~ is individually an H atom or alkyl group of 1 to 20 carbon atoms or phenyl or ³ benzyl,

and wherein:

~~X~~ is from 1 to 3000;

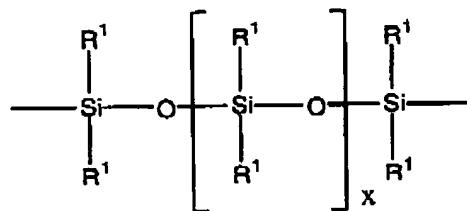
~~y~~ is from 0 to 3;

~~Z~~ is from 1 to 3, and

~~n~~ is from 2 to 6;

(B) (a) an aminofunctional polysiloxane (A) comprising alternating units of:

(i) a polysiloxane according to the following formula :



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and

(ii) a divalent organic moiety comprising at least one nitrogen atom; and
 (iii) a monovalent organic moiety[[, ,]] comprising at least one nitrogen atom, wherein said nitrogen atom is located at a terminal position of said polysiloxane; and

wherein R^1 is selected from the group consisting of an alkyl group of 1 to 5 carbons, [[or]] a phenyl group, [[or]] an alkoxy group, and [[or]] an hydroxy group; and x is from 1 to 3000; and

(C) (b) mixtures of said aminofunctional polysiloxane (A) and (B) a terminal aminofunctional polysiloxane (B) according to the formula:



wherein A represents R_2SiO :

wherein:

R is an alkyl group of 1 to 5 carbons, or a phenyl group, or an alkoxy group or an hydroxy group;

Q is an amine functional group of the formula $-R^2Z$;

R is a divalent alkylene radical of 3 to 6 carbons;

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Z is $-N(R^3)_2$ or $-NR^3(CH_2)_nN(R^3)_2$;

R is individually an H atom or alkyl group of 1 to 20 carbon atoms or phenyl or 3 benzyl;

and wherein:

x is from 1 to 3000;

y is from 0 to 3;

z is from 1 to 3; and

n is from 2 to 6.

2. (Currently Amended) A hair care composition according to claim 1, wherein comprising the terminal aminofunctional polysiloxane of (A) further comprises (B) wherein:

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R is an alkyl group of 1 to 5 carbons, or a phenyl group.
Q is an amine functional group of the formula R^2Z
R² is a divalent alkylene radical of 3 to 6 carbons, preferably trimethylene, pentamethylene, $CH_2CHCH_2CH_2$, or $CH_2CH_2CHCH_2CH_2$.
Z is $N(R^3)_2$, or $NR^3(CH_2)_nN(R^3)_2$
R³ is individually an H atom or alkyl group of 1 to 20 carbon atoms or phenyl or benzyl,
 and wherein
x is from 1 to 3000,
y is from 0 to 3,
z is from 1 to 3, and
n is from 2 to 6.

3. (Currently Amended) A hair care composition according to claim 2, wherein comprising the terminal aminofunctional polysiloxane of (A) further comprises (B) wherein:

R is a methyl
Q is an amine functional group of the formula R^2Z
R² is propyl or isobutyl - $CH_2CH_2CH_2$ - or - $CH_2CHCH_3CH_2$ -
Z is NH_2 or $NHCH_2CH_2NH_2$

and wherein

x is from 10 to 400,
y is from 0 to 1, and
z is 1.

4. (Currently Amended) A hair care composition according to claim 3, wherein comprising the terminal aminofunctional polysiloxane of (A) further comprises (B) wherein:

R is a methyl
Q is an amine functional group of the formula R^2Z
R² is propyl or isobutyl - $CH_2CH_2CH_2$ - or - $CH_2CHCH_3CH_2$ -
Z is NH_2 or $NHCH_2CH_2NH_2$

and wherein

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- is from 70 to 120[.].
- is from 0 to 1, and
- is 1.

5. (Currently Amended) A hair care composition according to claim 1 wherein said composition comprises from about 0.1% to about 10%, by weight of ~~said terminal aminofunctional polysiloxane~~ based on the total composition applied to the hair.
6. (Original) A hair care composition according to claim 1, wherein said composition further comprises at least one oxidative dye.
7. (Currently Amended) A hair care composition according to claim 1, wherein said composition has a pH of from about 9 to about 11.
8. (Original) A hair care composition according to claim 1 wherein said composition further comprises at least one additional conditioning agent.
9. (Canceled)
10. (Currently Amended) A hair colouring and conditioning kit comprising at least two components, a first component comprising an oxidising agent and a second component comprising a hair colouring agent, wherein said kit further comprises ~~an aminofunctional polysiloxane~~ a hair care composition according to claim 1 and wherein said ~~aminopolysiloxane~~ hair care composition is comprised within said first component, said second component or is comprised within a third component, wherein said first and said second components are mixed together immediately prior to application to the hair.
11. (Currently Amended) A packaged hair colouring and conditioning product comprising at least two chambers, a first chamber comprising a first composition comprising an oxidising agent, and a second chamber comprising a second composition comprising an oxidative hair colouring agent, wherein said package

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further comprises ~~an aminofunctional polysiloxane~~ a hair care composition according to claim 1, wherein said ~~aminofunctional polysiloxane~~ hair care composition is comprised within said first composition, or said second composition.

12. (Currently Amended) A packaged hair colouring and conditioning product comprising at least three chambers, a first chamber comprising a first composition comprising an oxidising agent, a second chamber comprising a second composition comprising an oxidative hair colouring agent, and a third chamber comprising a ~~third composition comprising a~~ aminofunctional polysiloxane hair care composition according to claim 1.
13. (Currently Amended) A method of colouring and conditioning human or animal hair, said method comprising the steps of:
 - (1) applying to the hair[[,]] a hair colouring composition; and
 - (2) applying to the hair a hair conditioning care composition according to claim 1; and (3) subsequently rinsing said composition off the hair.
14. (Currently Amended) A method of colouring and conditioning human or animal hair according to claim 13, said method comprising the steps of:[[-]]
 - (1) applying a conditioning hair care composition according to claim 1[[,]] to the hair and optionally subsequently rinsing said composition from the hair; and then
 - (2) applying a hair colouring composition to the hair and subsequently rinsing said composition from the hair.
15. (Currently Amended) A method of colouring and conditioning human or animal hair according to claim 13, said method comprising the steps of:[[-]]
 - (1) first applying a hair colouring composition to the hair and subsequently rinsing said composition from the hair; and then
 - (2) second applying a conditioning hair care composition according to claim 1[[,]] to the hair and preferably subsequently rinsing said composition from the hair.